Amendments to the Claims:

Please amend the claims as indicated.

1. (Currently Amended) A method of forming a pattern on a plate employing a mold <u>and actinic radiation</u>, said method comprising:

placing said plate, having a coupling layer positioned thereon, in superimposition with said mold;

positioning formable material between said plate and said mold, said formable material polymerizable in response to said actinic radiation;

contacting said formable material with said plate to form forming said pattern in said formable material to have a shape complementary to said mold, defining patterned material; and

adhering said patterned formable material to said coupling layer of said plate by passing said actinic radiation through said coupling layer to impinge upon said formable material.

- 2. (Original) The method as recited in claim 1 wherein positioning said formable material further includes depositing said formable material onto said mold.
- 3. (Original) The method as recited in claim 1 wherein positioning said formable material further includes depositing said formable material on said mold as a plurality of spacedapart droplets.

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5. (Currently Amended) The method as recited in claim 1 wherein positioning-said formable material further includes depositing said-formable material onto said mold, with forming

→ PTO

Appl. No. 10/827,118

Amdt. dated October 14, 2005

Reply to Office action of July 14, 2005

further including contacting said formable material with said plate and impinging radiation upon adhering said patterned formable material to solidify further includes solidifying said patterned formable material in response to said actinic radiation, defining patterned material.

- 6. (Currently Amended) The method as recited in claim 1 further including depositing a coupling agent on a surface of said plate, with wherein adhering said patterned formable material to said plate further including includes forming a chemical bond between said patterned formable material and said coupling [fagent] layer.
- 7. (Currently Amended) The method as recited in claim 1 further including forming said plate to be substantially transparent to <u>said</u> actinic radiation.
- 8. (Currently Amended) The method as recited in claim 1 wherein positioning further includes providing said formable material formed from a material selected from a group of materials consisting essentially of sol-gel, hybrid sol-gel, polycarbonate, polymethylmethacrylate, and epoxy.
- 9. (Original) The method as recited in claim 1 further including providing said mold with features having a height greater than $10\mu m$.
- 10. (Original) The method as recited in claim 1 further including providing said mold with features having a height in a range of $10\mu m$ to $100\mu m$.

→ PT0

Appl. No. 10/827,118 Amdt. dated October 14, 2005 Reply to Office action of July 14, 2005

- 11. (Currently Amended) The method as recited in claim 1 further including forming includes providing said mold formed from a material selected from a group of materials consisting essentially of silicon, gallium arsenide, quartz, fused-silica, sapphire, organic polymers, siloxane polymers, borosilicate glass, fluorocarbon polymers and a combination thereof.
- 12. (Currently Amended) The method as recited in claim I further including forming includes providing said plate formed from a material selected from a group of materials consisting essentially of quartz, fused silica, and soda lime glass.
- 13. (Original) The method as recited in claim 1 wherein positioning said formable material further includes depositing said formable material on said plate as a plurality of spaced-apart droplets.
- 14. (Currently Amended) A method of forming a pattern on a plate employing a mold and actinic radiation, said method comprising:

placing said plate, having a coupling layer positioned thereon, in superimposition with said mold;

positioning formable material between said plate and said mold, said formable material polymerizable in response to said actinic radiation;

contacting said formable material with said plate to form forming said pattern in said formable material to have a shape complementary to said mold by exposing said formable material to actinic radiation defining cross linked material; and

condensing said eross linked material by thermally treating said eross linked material, defining patterned material.

→ PT0

Appl. No. 10/827,118

Amdt. dated October 14, 2005

Reply to Office action of July 14, 2005

solidifying said formable material, defining patterned material, while adhering said formable material to said coupling layer of said plate by passing said actinic radiation through said coupling layer and impinging said actinic radiation onto said formable material.

15. CANCELLED

16. CANCELLED

- 17. (Original) The method as recited in claim 14 wherein positioning further includes depositing said formable material as a plurality of droplets on said mold.
- 18. (Original) The method as recited in claim 14 further including providing said mold with features having height greater than $10\mu m$.
- 19. (Original) The method as recited in claim 14 further including providing said mold with features having a height in a range of $10\mu m$ to $100\mu m$.
- 20. (Currently Amended) The method as recited in claim 14 wherein positioning further includes providing said formable material formed from a material flish selected from a group of materials consisting essentially of sol-gel, hybrid sol-gel, polycarbonate, polymethylmethacrylate, and epoxy.
- 21. (Currently Amended) The method as recited in claim 14 wherein further includes providing said mold formed from a material [fist] selected from a group of materials consisting essentially of silicon, quartz, fused-silica, sapphire, organic

polymers, siloxane polymers, borosilicate glass, fluorocarbon polymers or a combination thereof.

- 22. (Original) The method as recited in claim 14 wherein positioning said formable material further includes depositing said formable material on said plate as a plurality of spacedapart droplets.
- (Currently Amended) A method of forming a pattern on a plate employing a mold and actinic radiation, said method comprising:

placing said plate, having a coupling layer positioned thereon, in superimposition with said mold, with said plate having a coupling agent disposed on a surface thereof;

depositing formable material on said mold as a plurality of spaced-apart droplets;

contacting said formable material with said plate to form said pattern in said formable material to have a shape complementary to said mold, defining patterned material; and

impinging actinic radiation upon said patterned formable material, defining patterned material, by passing said actinic radiation through said coupling layer to couple said patterned material to said coupling [Hagent]
layer of said plate.

- 24. (Currently Amended) The method as recited in claim 23 wherein impinging said actinic radiation further includes solidifying said patterned formable material.
- 25. (Currently Amended) The method as recited in claim 24 wherein impinging said actinic radiation further includes forming a chemical bond between said patterned formable material and said coupling [[agent]] layer.

- 26. (Original) The method as recited in claim 25 further including providing said mold with features having dimensions greater than $10\mu m$.
- 27. (Original) The method as recited in claim 26 further including providing said mold with features having a height in a range of $10\mu m$ to $100\mu m$.
- 28. (Currently Amended) The method as recited in claim 27 further including forming said plate to be substantially transparent to <u>said</u> actinic radiation.
- 29. (Currently Amended) The method as recited in claim 28 wherein depositing further includes providing said formable material formed from a material selected from a group of materials consisting essentially of sol-gel, hybrid sol-gel, polycarbonate, polymethylmethacrylate, and epoxy.
- 30. (Currently Amended) The method as recited in claim 29 further including forming includes providing said mold formed from a material selected from an additional group of materials consisting essentially of silicon, gallium arsenide, quartz, fused-silica, sapphire, organic polymers, siloxane polymers, borosilicate glass, fluorocarbon polymers and a combination thereof.
- 31. (Currently Amended) The method as recited in claim 30 further including forming providing said plate formed from a material selected from a further group of materials consisting essentially of quartz, fused silica, and soda lime glass.

- 32. (New) The method as recited in claim 1 further including forming said coupling layer from 3- (trimethoxysilyl) propyl acrylate.
- 33. (New) The method as recited in claim 1 wherein adhering said formable material further includes solidifying said formable material in response to said actinic radiation.
- 34. (New) The method as recited in claim 14 further including forming said coupling layer from 3- (trimethoxysilyl)propyl acrylate.
- 35. (New) The method as recited in claim 23 further including forming said coupling layer from 3-(trimethoxysilyl)propyl acrylate.
- 36. (New) The method as recited in claim 14 further including condensing said patterned material by thermally treating said patterned material.

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